#### INTERNATIONAL SEARCH REPORT

International application No.

### PCT/SE 02/00689 A. CLASSIFICATION OF SUBJECT MATTER IPC7: A61M 1/10 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC7: A61M Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched SE,DK,FI,NO classes as above Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Category\* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. 1 X US 5135539 A (CARPENTIER), 4 August 1992 (04.08.92), figures 1-2, claims 1-14 Х FR 2710847 A1 (DEMANDEUR(S)), 14 April 1995 1 (14.04.95), figures 1,2, claims 1-5 US 6123724 A (DENKER), 26 Sept 2000 (26.09.00), A 1-8 figures 1-4, claims 1-17 US 6099460 A (DENKER), 8 August 2000 (08.08.00), A 1-8 figures 1-6, claims 1-31 X Further documents are listed in the continuation of Box C. X See patent family annex. "I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document referring to an oral disclosure, use, exhibition or other document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search **19 9 -07- 2002** 12 June 2002 Name and mailing address of the ISA Authorized officer Swedish Patent Office

Agneta Änggård/SN

Telephone No. + 46 8 782 25 00

Form PCT/ISA/210 (second sheet) (July 1998)

Box 5055, S-102 42 STOCKHOLM

Facsimile No. +46 8 666 02 86

## INTERNATIONAL SEARCH REPORT

International application No.
PCT/SE 02/00689

Category*	ation). DOCUMENTS CONSIDERED TO BE RELEVANT  Gration of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
61		
A	US 5139517 A (CORRAL), 18 August 1992 (18.08.92), figures 1-4C, claims 1-12	1-8
A	US 4809676 A (FREEMAN), 7 March 1989 (07.03.89), figures 1-2, claims 1-20	1-8

Form PCT/ISA/210 (continuation of second sheet) (July 1998)

#### INTERNATIONAL SEARCH REPORT

Information on patent family members

01/05/02

International application No.
PCT/SE 02/00689

Patent document cited in search report			Publication date		itent family member(s)	Publication date
US	5135539	A	04/08/92	AT	89177 T	15/05/93
				. CA	1329450 A	17/05/94
				DE	68906403 D,T	04/11/93
				DK	133489 A	10/05/89
				EP	0324669 A,B	19/07/89
				SE	0324669 T3	24 /4 2 /22
				ES	2042015 T	01/12/93
				FR	2625903 A,B	21/07/89
:			·	. JP	2005966 A	10/01/90
FR	2710847	A1	14/04/95	WO	9509660 A	13/04/95
US	6123724	Α	26/09/00	AU	4229700 A	14/11/00
		•		EP	1169086 A	09/01/02
				WO	0061227 A	19/10/00
US	6099460	Α	08/08/00	AU	3570199 A	16/11/99
	0033.00	••	00, 00, 00	CA	2329766 A	04/11/99
				EP	1075290 A	14/02/01
				US	6309341 B	30/10/01
				WO	9955399 A	04/11/99
US	5139517	Α	18/08/92	NONE		
US	4809676	Α	07/03/89	NONE		

Form PCT/ISA/210 (patent family annex) (July 1998)

# PATENT COOPERATION TREATY

# **PCT**

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	OR FURTHER ACTION	See Notifi	ication of Transmittal of International
110203EC00/CA		Prelimina	ry Examination Report (Form PCT/IPEA/4)
International application No. Inter	mational filing date (day/mo	nth/year)	Priority date (day/month/year)
PCT/SE02/00689 08	.04.2002		10.04.2001
International Patent Classification (IPC) or nation	onal classification and IPC7		1-1-01.2001
A61M 1/10			
Applicate			
Applicant			
AL-NAJJAR, Azad		••	
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Authority and is transmitted to the application	can report has been prepared cant according to Article 36.	by this laten	national Preliminary Examining
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This report is also accompanied by	ANNEXES, i.e., sheets of	the description	on, claims and/or drawings which have
(see Rule 70.16 and Section 607 of	this report and/or sheets co	ntaining rect	on, claims and/or drawings which have infications made before this Authority
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3. This report contains indications relating to	the following iron		
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(C.)			
II Priority			
III Non-establishment of opinion	with regard to novelty, inve	entive sten a	nd industrial applicability
Lack of unity of invention	•		:::
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citations and explanations sup	ncle 35(2) with regard to no	velty, invent	rive step or industrial applicability;
VI Certain documents cited	г энтелледа		· · · · · · · · · · · · · · · · · · ·
VII Certain defects in the internati	ional and the state		
VIII Certain observations on the int	ternational application		
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#### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/SE02/00689

	PAR	sis of the	report	,	
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#### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/SE02/00689

1.

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1.	Statement			
	Novelty (N)	Claims Claims	1~7	YES NO
	Inventive step (IS)	Claims Claims	1-7	YES NO
	Industrial applicability (IA)	Claims Claims	1-7	YES NO

2. Citations and explanations (Rule 70.7)

The following main documents were cited in the International Search Report:

- D1 US 5135539 (CARPENTIER)
- D2 FR 2710847 DEMANDEUR(S))

The documents cited represent background art.

The invention claimed in claims 1-7 is not disclosed by any of these documents.

None of the cited documents gives any indication towards the claimed artificial heart. No relevant combination of the cited documents would lead a person skilled in the art to the invention defined in the claims.

Therefore, the invention claimed in claims 1-7 is novel and is considered to involve an inventive step. The invention is also considered to be industrially applicable.

#### CLAIMS

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1. Heart prosthesis/artificial heart comprising a series of drawing and pressing means and intended to be implanted in a patient to replace the pumping acitivity of a heart, whereby comprises at least two compartments (5, 6, 12, 13, 25, 26, 27, 28), substantially surrounded by rigid-wall provided house (2, 3, 31) containing a number of drawing and/or pressing devices (10, 48, 50), characterized in

that it comprises two halves, comprising an atrium (25, 26), and ventricles (27, 28) respectively, separated with a valve (29, 40) provided plate (37) which plate (37) is arranged to be able to be moved between the ventricles (27, 26) and the atriums (25, 26) by means of drawing and/or pressing devices (48, 50) arranged in said rigid wall provided house (31).

- 2. Heart prosthesis according to claim1,
- 15 characterized in

that it comprises four compartments (5, 6, 12, 13, and 25, 26, 27, 28, respectively).

3. Heart prosthesis according to claim1,

#### characterized in

20 that the drawing and/or pressing devices (10, 48, 50) are drawing and pressing electromechanical devices, respectively, including electro-magnets.

4. Heart prosthesis according to claim1,

#### characterized in

- 25 that said plate (37) is arranged to be moved by means of electro-magnets (48) or a hydraulic device arranged in said wall (31).
  - Heart prosthesis according to claim1,

#### characterized in

- 30 that the drawing and/or pressing devices are drawing, and pressing, respectively, hydraulically activated pistons.
  - 6. Heart prosthesis according to claim1,

#### characterized in

- 35 that it is arranged to be controlled digitally via a soft-ware present in a circuit board (22) in a diastole, atrium systole, and systole phase, respectively.
  - 7. Heart prosthesis according to claim1,

#### characterized in

40 that it is supplied with energy from one or more DC batteries.

For receiving Office use only
Invernational Application No.
International Filing Date
Name of receiving Office and "PCT International Application"

REQUEST The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty. Applicant's or agent's file reference (If desired) (12 characters maximum) P16203PC00/CA TITLE OF INVENTION Box No. I ARTIFICAL HEART This person is also inventor APPLICANT Box No. II Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) Telephone No. Facsimile No. AL-NAJJAR, Azad Teleprinter No. Rönnbergsgatan 54 S-723 46 VÄSTERÅS Applicant's registration No. with the Office Sweden State (that is, cowury) of residence: State (that is, country) of nationality: SE the States indicated in the Supplemental Box SE the United States of America only ell designated States except the United States of America ell designated This person is applicant for the purposes of: FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S) Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include portal code and name of country. The country of the address indicated in this Bat is the applicant's State (that is, country) of residence if no State of residence is indicated below.) This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office State (that is, country) of residence: State (that is, country) of nationality: the States indicated in the Supplemental Box the United States of America only all designated States except the United States of America This person is applicant all designated States for the purposes of: Further applicants and/or (further) inventors are indicated on a continuation sheet. AGENT OR COMMON REPRESENTATIVE: OR ADDRESS FOR CORRESPONDENCE Box No. IV common representative The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as: X agent Telephone No. Name and address: (Family name followed by given name: for a legal entity, full official designation.
The address must include postal code and name of country.) +46-31-507700 Facsimile No. STRÖM & GULLIKSSON IP AB +46-31-7790640 Sjöporten 4 Teleprinter No. S-417 64 GOTEBORG Sweden Agent's registration No. with the Office Address for correspondence: Mark this check-box where no agent of common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

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Sheet	No.		

Box I	Y0. Y	DESIGNATION OF STATES	Mark the applicable check-boxes below: at least one must be marked.
The f	Allen	ring designations are hereby made und	er Rule 4.9(a):
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	9	SL Sierra Leone, SZ Sweziland, TZ Ur State which is a Confracting State of	isambia, KE Kenya, LS Lesotho, MW Malawi, MZ Mozambique, SD Sudan, nited Republic of Tanzania, UG Uganda, ZM Zambia, ZW Zimbabwa, and any other the Harare Protocol and of the PCT (if other kind of protection or treatment desired.
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Bgx No. VI PRIORITY	CĽAĬM					
The priority of the following	gearlier application(s) is here	by claimed:				
Filing date	Number	Where earlier application is:				
of earlier application (day/month/year)	of carlier application	national application: country	regional application: regional Office	international application: receiving Office		
item (1) 10.04.2001	0101259-0	Sweden				
item (2)						
item (3)	A**					
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item (5)						
Further priority claims	are indicated in the Supplem	ental Box.				
The receiving Office is required if the earlier application was above as:	ested to prepare and transmit filed with the Office which for (1) item (2)	to the International Bureau the purposes of this international item (3)	пона аррасанов в не	earlier application(s) (only receiving Office) identified  ther, see Supplemental Box		
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international search, indicate	arching Authority (ISA) (if e the Authority chosen; the sw	two or more International o-letter code may be used):	Searching Authorities are	competent to carry out the		
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### Box No. VIII DECLARATIONS

International Searching Authority):

Date (day/month/year)

The following declarations are contained in Boxes Nos. VIII (i) to (v) (mark the applicable check-boxes below and indicate in the right column the number of each type of declaration):

Box No. VIII (i) Declaration as to the identity of the inventor:

Number

Declaration as to the applicant's entitlement, as at the international filing

Country (or regional Office)

Box No. VIII (ii) Declaration as to the applicant's entitlement, as at the international fill date, to apply for and be granted a patent

Box No. VIII (iii) Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application

Box No. VIII (iv) Declaration of inventorship (only for the purposes of the designation of the United States of America)

Box No. VIII (v) Declaration as to non-prejudicial disclosures or exceptions to lack of novelty

Number of declarations

Sheet No. ...4...

Box No. IX CHECK LIST; LANGUAGE	OF FILING				
This international application contains:  (a) the following number of	This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in	Number of items			
sheets in paper form:	right column the number of each item):  1. M fee calculation sheet	. 1			
request (including declaration sheets) : 4	2. original separate power of attorney	•			
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sequence listing part) : 13	4. copy of general power of attorney; reference number.	•			
claims : 2 abstract : 1	if any:	:			
drawings : 12	5. statement explaining lack of signature	;			
Sub-total number of sheets: 32	6. priority document(s) identified in Box No. VI as item(s):	:			
sequence listing part of description (actual number of sheets if filed in paper	7. uanslation of international application into (language):	····· <b>:</b>			
form, whether or not also filed in computer readable form; see (b) below)	<ol> <li>separate indications concerning deposited microorgani or other biological material</li> </ol>	sm :			
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(b) sequence listing part of description filed in computer readable form	<ul> <li>(i) copy submitted for the purposes of international under Rule 13 ter only (and not as part of the</li> </ul>	search			
(i) only (under Section 801(a)(i))	international application)  (ii) (only where check-box (b)(i) or (b)(ii) is marked	in left			
(ii) in addition to being filed in paper form (under Section 801(a)(ii))	column) additional copies including, where app the copy for the purposes of international search	licable,			
Type and number of carriers (diskette, CD-ROM, CD-R or other) on which the	Rule 13ter	<u>.</u> :			
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Figure of the drawings which should accompany the abstract:  Fig. 1  Language of filing of the international application:  Swedish					
Box No. X SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE  Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).  Gothenburg, April 4, 2002  Ulf Inger  Ström & Gulliksson & AB					
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Date of actual receipt of the purported international application:	For receiving Office use only	2. Drawings:			
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:					
4. Date of timely receipt of the required corrections under PCT Article 11(2):					
5. International Searching Authority (if two or more are competent): ISA /  6. Transmittal of search copy delayed until search fee is paid					
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Date of receipt of the record copy by the International Bureau:	Date of receipt of the record copy				

# PATENT COOPERATION TREATY

PCT	Fr m the INTERNATIONAL BUREAU To:
INFORMATION CONCERNING ELECTED OFFICES NOTIFIED OF THEIR ELECTION  (PCT Rule 61.3)  Date of mailing (day/month/year)	STRÖM & GULLIKSSON IP AB Sjörporten 4 S-417 64 Göteborg Sweden
13 December 2002 (13.12.02)	Shring & Gutiliason (PMS
Applicant's or agent's file reference P16203PC00/CA	IMPORTANT INFORMATION
International application No. International filling dat PCT/SE02/00689 08 April 2002	e (day/month/year)   Priority date (day/month/year)   (08.04.02)   10 April 2001 (10.04.01)
Applicant AL-NAJJAR, Azad	

- 1. The applicant is hereby informed that the International Bureau has, according to Article 31(7), notified each of the following
  - EP :AT,BE,GH,CY,DE,DK,ES,FI,FR,GB,GR,IE,IT,LU,MC,NL,PT,SE,TR National :AU,BG,CA,CN,DE,GB,IL,JP,KP,KR,MN,NO,PL,RO,RU,SK,US
- The following Offices have walved the requirement for the notification of their election; the notification will be sent to them
  by the International Bureau only upon their request:

AP:GH,GM,KE,LS,MW,MZ,SD,SL,SZ,TZ,UG,ZM,ZW
EA:AM,AZ,BY,KG,KZ,MD,RU,TJ,TM
OA:BF,BJ,CF,CG,CI,CM,GA,GN,GO,GW,ML,MR,NE,SN,TD,TG
National:AE,AG,AL,AM,AT,AZ,BA,BB,BR,BY,BZ,CH,CO,CR,CU,CZ,DK,DM,DZ,EC,EE,ES,FI,GD,GE,GH,GM,HR,HU,ID,IN,IS,KE,KG,KZ,LC,LK,LR,LS,LT,LU,LV,MA,MD,MG,MK,MW,MX,MZ,NZ,OM,PH,PT,SD,SE,SG,SI,SL,TJ,TM,TN,TR,TT,TZ,UA,UG,UZ,VN,YU,ZA,ZM,ZW

3. The applicant is reminded that he must enter the "national phase" before the expiration of 30 months from the priority date before each of the Offices listed above. This must be done by paying the national feets) and furnishing, if prescribed, a translation of the international application (Article 39(1)(a)), as well as, where applicable, by furnishing a translation of any annexes of the international preliminary examination report (Article 36(3)(b) and Rule 74.1).

Some offices have fixed time limits expiring later than the above-mentioned time limit. For detailed information about the applicable time limits and the acts to be performed upon entry into the national phase before a particular Office, see Volume II

The entry into the European regional phase is postponed until 31 months from the priority date for all States designated for the purposes of obtaining a European patent.

The International Bureau of MPO 34, chemin des Cotombettes 1211 Geneva 20, Switzerland Authorized officer:

ALI SOLEIMAN

Facsimile No. (41-22) 740,14.35

Telephone No. (41-22) 338.83.38

## PATENT COOPERATION TREATY

NJ

#### PCT

NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

Date of mailing (day/month/year) 31 October 2002 (31.10.02)

Applicant's or agent's file reference P16203PC00/CA

International application No: PCT/SE02/00689

International filing date (day/month/year)

08 April 2002 (08.04.02)

Priority date (day/month/year) 10 April 2001 (10.04.01)

ANKO

IMPORTANT NOTICE

2002 -11- 08

Mileson IP48

From the INTERNATIONAL BUREAU

STRÖM & GULLIKSSON IP AB

Siörparten 4

Sweden

S-417 64 Göteborg

AL-NAJJAR, Azad

Notice is hereby given that the international Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this notice:

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present notice as conclusive evidence that the communication of the International application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have walved the requirement for such a communication at this time:

AE,AG,AL,AM,AF,AT,AU,AZ,BA,BB,BG,BR,BY,BZ,CA,CH,CN,CO,CR,CU,CZ,DE,DK,DM,DZ,EA,EC, EE,EP,ES,FJ,GB,GD,GE,GH,GM,HR,HU,ID,IL,IN,IS,JP,KE,KG,KZ,LC,LK,LR,LS,LT,LU,LV,MA, MD,MG;MK,MN,MW,MX,MZ,NO,NZ,OA,OM,PH,PL,PT,RO,RU,SD,SE,SG,SI,SK,SL,TJ,TM,TN,TR,TT, TZ,UA,UG,UZ,VN,YU,ZA,ZM,ZW

The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 48.1 (a bis)).

- Enclosed with this notice is a copy of the international application as published by the international Sureau on 31 October 2002 (31, 10.02) under No. WO 02/086432
- TIME LIMITS for filling a demand for impernational preliminary examination and for every into national phase

The applicable time limit for entering the national phase will, subject to what is said in the following paragraph be 30.MONTHS from the priority date, not only in respect of any elected Office if a demand for international preliminary examination is filed before the expiration of 18 months from the priority date, but also in respect of any designated Office, in the absence of filing of such demand, where Article22(1) as modified with effect from 1 April 2002 applies in respect of the designated Office. For Juritary details, see PCT Gazette No.44/2001 of 1 November 2001, pages 19926, 18832 and 18834; as well as the PCT News-

In practice, time limits other than the 30-month time limit will continue to apply, for various periods of time, in respect of certain designated or elegated Offices. For regular updates on the applicable time limits (20.21.30 or 31 months, or other time limit), Office by Office, refer to the PCT Gazette, the PCT Newsletter and the PCT Applicant's Guide, Volume II, National Chapters, all available from WIPO's internet site, at http://www.wipo.inv/pct/en/index.html.

For filing a demand for international preliminary examination, see the PCT Applicant's Gilidé, Volume I/A, Chapter IX. Only an an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination (at present, all PCT Contracting States are bound by Chapter II.)

It is the applicant's sole responsibility to monitor all these limits.

The International Bureau of WIPO 34, chemin des Colombettes 1271 Geneva 20, Switzerland

Authorized officer

J. Zahra

Telephone No. (41-22) 338.81.11

Form PCT/IB/308 (April 2002)

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Facsimile No. (41-22) 740.14.36

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